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ATARIWRITER™ PRINTER DRIVERS

HOME MANAGEMENT

Adapt the AtariWriter™ word processor for use with other
printers

(for use of AtariWriter™ and printers other than the ATARI 825
and ATARI 1025)

by **Gary Furr**

Requires: AtariWriter™ Word Processing Cartridge

Blank formatted diskettes

Diskette version (2)
(APX-20223)

ATARI 810 or 1050 Disk Drive
24K RAM

Edition D

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Printer Drivers

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Gary Furr

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Introduction

OVERVIEW

The AtariWriter Word Processor was designed for certain ATARI printers: the ATARI 820, 822 825, and 1025 Printers. This meant that ATARI Home Computer owners who have other kinds of printers had to go through a complicated procedure to use AtariWriter--until now. The AtariWriter Printer Drivers program allows owners of other printers that are compatible with the ATARI Home Computer to enjoy the power of AtariWriter.

The Printer Driver diskette lets you use several popular printers: the ATARI 1020 and 1027 Printers, several EPSON printers, a GEMINI, an IDS, a MANNESMANN TALLY, a NEC, two OKIDATA printers, and a PROWRITER printer. The Printer Driver loads into computer memory when you've set up your AtariWriter cartridge with a diskette containing DOS and the driver. When you're using a Printer Driver routine, you'll notice that there's less computer memory available to you. This manual shows you how to deal with large files.

AtariWriter uses commands for special formatting and printing options available on your printer. For example, the GEMINI 10 allows you to underline words or phrases. Before the Printer Driver, you either did without the underlining option, or used the Control Codes option to send all the control codes through the text to your printer. The Printer Driver configures AtariWriter to deal with each printer individually. You can take advantage of your printer's options, and all of AtariWriter's options, without having to use control codes. You can underline, elongate characters, add superscripts and subscripts, and use any of the features you find in the AtariWriter manual.

REQUIRED ACCESSORIES

AtariWriter Word Processing Cartridge
ATARI 810 or 1050 Disk Drive
Blank formatted diskette(s) (with DOS files)
24K RAM

Getting started

LOADING ATARIWRITER PRINTER DRIVERS INTO COMPUTER MEMORY

1. Insert the AtariWriter™ Word Processing Cartridge in the cartridge slot of your computer.
2. Have your computer turned OFF.
3. Turn on your disk drive.
4. When the BUSY light goes out, open the disk drive door and insert the AtariWriter Printer Drivers diskette with the label in the lower right-hand corner nearest to you. Close the door.
5. Turn on your computer and your TV set. AtariWriter will load into computer memory and start automatically.

Using AtariWriter Printer Drivers

CHOOSING THE DRIVER FOR YOUR PRINTER

When ATARIWRITER has loaded into computer memory, the AtariWriter menu appears on the screen, as follows:

```
ATARIWRITER

CREATE File
DELETE File
EDIT File
FORMAT Disk
INDEX of Disk Files
LOAD File
PRINT File
SAVE File

SELECT LETTER _
```

Figure 1 AtariWriter menu

Type I to select INDEX. The following directory of index files appears on the screen:

ATAR1020	002
ATAR1027	002
DISKNAME.DAT	001
DOS.SYS	039
DUP.SYS	042
EMX80FT3	012
EPNMX100	010
EPSNFX80	013
EPSNMX80	010
EPSNRX80	012
GEMI10X	013
GEMINI10	013
IDS480	006
MANNMANN	010
MX100FT3	012
MX100GRF	010
MX80GRAF	010
NEC8023A	014
OKI92A	014
OKI93A	014
PRORITER	014
434 FREE SECTORS	

Figure 2 Index of printer drivers

Select the driver for your printer (refer to the following section of this manual if you're in doubt). Make a note of the file name for that driver. For example, if you have an older version EPSON MX-100 printer, note that the file name is EPNMX100.

Press the ESC key, and the AtariWriter menu (Figure 1) reappears. Type L to choose the option to load a file. The prompt to name the file appears. Respond by typing the file name of your printer that you noted above (EPNMX100, for example).

COPYING THE DRIVER ONTO YOUR DISKETTE

Remove the printer driver program diskette from the disk drive, and insert a formatted diskette with the DOS file on it. Close the disk drive door.

Type S to choose the option to save the file. You see the prompt to enter the name of the file you're saving. Type the following name:

AUTORUN.SYS

Press the RETURN key. Now your diskette is ready. To continue, turn the computer OFF and then ON again.

Whenever you start to create or edit a file on AtariWriter with that diskette from now on, you can load directly from it. You don't have to use the printer driver program diskette again.

USING THE DOS MENU

You may use the DOS menu to copy the printer driver file for your printer onto your AtariWriter data diskettes with the AUTORUN.SYS file if you prefer. Refer to the Disk Operating System II Reference Manual for complete instructions on how to copy a file from one diskette to another.

TYPE FONTS

When you're using AtariWriter, you set the format of the pages on a format line at the top of the screen. The "font" (or style of type) is set by the number after the letter "G". For each printer, these numbers have different fonts.

Instructions for specific printers

ATARI 1020

The ATARI 1020 printer is identified on the Printer Driver diskette by the following file name:

ATAR1020

The ATARI 1020 color printer/plotter is a 40-column four-color plotter. If you're using it as a printer with AtariWriter, you won't be able to use the following features:

- Underlining
- Superscripting/subscripting
- Proportional fonts
- Elongated characters
- Double-column printing

Don't forget to change the left and right margin values in the print formatting block at the top of your AtariWriter file, because the 1020 is only 40 columns wide.

ATARI 1027

The ATARI 1027 printer is identified on the Printer Driver diskette by the following file name:

ATAR1027

The ATARI 1027 printer is an 80-column letter quality printer. You either feed single sheets of paper, or you can consider tearing off the tractor feed strip on each side of the fan fold paper so that you don't have to deal with the sheets one at a time. The fan fold paper is more efficient unless you're using letterhead paper. Printing on the bottom two inches of a single sheet of paper is almost impossible.

The only AtariWriter extra that the ATARI 1027 supports is underlining. You can't use

superscripting and subscripting, condensed or proportional fonts, elongated characters, or double-column printing.

EPSON FX-80

The EPSON FX-80 printer is identified on the Printer Driver diskette by the following file name:

EPSNFX80

You shouldn't try to print superscripts and subscripts in the proportional character font (see FX-80 Users Manual, page E-1).

Since the FX-80 supports reverse line feeds, you can print in double columns. Set the new left and right margins (as described in the AtariWriter manual). The print first appears between the first left and right margins; then the paper is reverse rolled, and the second column on the right side of the paper prints.

When you use the Optional Tractor Unit (see the FX-80 Users Manual, page 3-101), the reverse line feed doesn't operate. This means you can't print superscripts, subscripts, or double columns while you're using this unit.

Since the FX-80 supports proportional print, you may use AtariWriter's font "3" for this purpose. Since the FX-80 allows you to print in ITALICS, you may use font "4" to indicate ITALICS.

EPSON MX-80 AND EPSON MX-100

The EPSON MX-80 printer is identified by the following file name:

EPSNMX80

The EPSON MX-100 printer file name is as follows:

EPNMX100

These files are specifically designed to be used with the "first" models of the EPSON printers, as opposed to the GRAFTRAX or now the FT III. If you haven't upgraded your EPSON printers, this is the one for you.

Since the MX-80 and MX-100 don't support reverse line feeds, you can't print in double columns on these printers. Suppose you tried to set the new left and right margin values, as if you were printing double columns. The MX-80 and MX-100 would print everything between those new left and right margins instead of following the second column left and right margins. There is a suggestion for a way around the problem of double-column printing, in a later section of this manual.

Also since these printers don't support reverse line feed, multi-level superscripts or subscripts aren't possible on these printers.

This printer isn't capable of underlining.

There are no ITALICS or proportional fonts on the EPSON MX-80. If you selected font 3 with AtariWriter, you get ten characters per inch.

Set the DIP switches to the "factory settings" described in the User's Manual (page 21).

EPSON MX-80 GRAFTRAX and EPSON MX-100
GRAFTRAX (not GRAFTRAX PLUS)

The EPSON MX-80 GRAFTRAX printer is identified on the Printer Driver diskette by the following file name:

MX80GRAF

The EPSON MX-100 GRAFTRAX file name is as follows:

MX100GRF

This printer isn't capable of underlining.

Since there's no reverse line feed, you can't print superscripts and subscripts. This means you can't print in double columns, unless you follow the procedure suggested later in this manual.

There are no *ITALICS* or proportional fonts on the EPSON MX-80 GRAFTRAX. If you select font 3, the printer gives you ten characters per inch (CPI).

Choose the following DIP Switch settings for this printer driver:

ON SW-2 OFF			ON SW-1 OFF		
-----			-----		
4		x	8	x	
3	x		7		x
2		x	6	x	
1		x	5		x
-----			4		x
			3		x
			2		x
			1		x

Figure 3 EPSON MX-80 GRAFTRAX
DIP switch settings

EPSON MX-80 FT III and EPSON MX-100 FT III
(GRAFTRAX PLUS)

The EPSON MX-80 FT III printer is identified on the Printer Driver diskette by the following file name:

EMX80FT3

The EPSON MX-100 FT III is identified as follows:

MX100FT3

Since the EPSON MX-80 FT III and MX-100 FT III printers don't support the proportional print font, using font "3" gives you *ITALICS*.

Since these printers don't support reverse line feeds, double column printing isn't possible. If you try to set new left and right margins (as if to print double columns), all the print appears between the first left and right margins. See the suggestions on double column printing later in this manual.

Also since these printers don't support reverse line feed, multi-level superscripts or subscripts aren't possible. EPSON has provided single level superscripts and subscripts.

Make sure your DIP Switches are set at the values in Figure 1-11 on page 1-11 of the EPSON MX-80 Printer Manual with GRAFTRAX PLUS.

EPSON RX-80

The EPSON RX-80 printer is identified on the Printer Driver diskette by this name:

EPSNRX80

Since the RX-80 is between the MX-80 and the FX-80 in the family of EPSON printers, it has inherited some characteristics from both. The RX-80 doesn't support proportional print font, so font "3" gives you ITALICS.

Since the RX-80 doesn't support reverse line feeds, you can't print in double columns. If you try to set the new left and right margins to print double columns, all the print falls between the first left and right margins. ATARIWRITER ignores the second left and right margins. For more information, see the section on double column printing later in this manual.

The DIP switches must be set as follows:

ON SW-1 OFF				ON SW-2 OFF			
-----				-----			
	X		8		X		4
	X		7		X		3
	X		6		X		2
			5				1
			X				X
			X				
			X				
			X				
			X				
			1				
-----				-----			

Figure 4 EPSON RX-80
DIP switch setting

GEMINI-10

The GEMINI-10 printer is identified on the Printer Driver diskette by the following file name:

GEMINI10

Since the GEMINI-10 doesn't support reverse line feeds, you can't print in double columns. See the section on double column printing later in this manual for some suggestions.

You can't print multi-level superscripts or subscript, but the GEMINI-10 does provide single-level superscripts and subscripts.

AtariWriter defines character font "3" as the proportional character font. The GEMINI-10 provides the proportional character font only as an option and not as a part of the original printer. If the proportional ROM is a part of your GEMINI-10 printer, the proportional font should be correctly justified on the right with font "3".

The GEMINI-10 provides an extra that some printers don't offer. You can select character font "4" to print in ITALICS. You can select all AtariWriter features with this font too.

Avoid printing superscripts and subscripts in the proportional font on the GEMINI-10. It's hard to read the result.

GEMINI-10X

The GEMINI-10X printer is identified on the Printer Driver diskette as follows:

GEMI10X

This Printer Driver for the GEMINI-10X allows you to use all the AtariWriter commands without having to use the embedded function codes.

The GEMINI-10X printer is a later model of the original GEMINI-10. These two printers are almost identical except that the GEMINI-10X does not have proportional print font. The Printer Driver for the GEMINI-10 uses font "3" for the proportional print font. In the GEMINI-10X Printer Driver, font "3" has been changed to the Elite 12 CPI print style.

If you purchased this Printer Driver for your GEMINI-10, you can use the GEMINI-10X Printer Driver with the GEMINI-10 printer also. But the proportional print style isn't available to you unless you use the Printer Driver specifically for the GEMINI-10. You might want to switch between the two to get the most options.

There's an error in the firmware of the GEMINI-10 in the function codes used to turn off Super/Subscripts. This problem has been fixed in the GEMINI-10X. However, when you're using the GEMINI-10X Printer Driver with the GEMINI-10 printer, you use the command (described below) to turn OFF Double Strike print at the end of any text where you've used Super/Subscript commands.

The Printer Driver for the GEMINI-10X allows you to "emphasize" print and to "double strike" any print style. This Printer Driver provides special

font commands to turn these special print modes ON or OFF. As noted in your GEMINI-10X Users Manual under "Special Print Modes," you can use emphasized printing only with the normal 10 CPI (PICA) and wide Pica (5 CPI) characters (not with super/subscripts). You can use double strike printing with any other print style commands, and you can combine it with the emphasized print mode.

Press [CTRL]G and 5 to turn emphasized printing ON, and [CTRL]G and 6 to turn emphasized OFF. Press [CTRL]G plus 7 to turn ON double strike, and [CTRL]G plus 8 to turn double strike OFF.

Note: Make all changes in fonts on a line by themselves before the text that they're going to affect.

Since the GEMINI-10X doesn't perform a reverse line feed, it doesn't support multi-level superscripts and subscripts or double column printing. The GEMINI-10X provides single level superscripts and subscripts in all print modes except elongated print and emphasized printing.

You can use this Printer Driver for the GEMINI-10X equally well on a GEMINI-10 or a GEMINI-10X. The following chart shows the print styles of each font. As noted above, font "3" provides proportional print on the GEMINI-10 and Elite 12 CPI on the GEMINI-10X.

FONT COMMAND	PRINT STYLE	CAN BE WIDE
CTRL+G1	PICA 10 CPI	YES
CTRL+G2	PICA 16.7 CPI	YES
CTRL+G3	ELITE 12 CPI	YES
CTRL+G4	ITALICS 10 CPI	YES
CTRL+G5	EMPHASIZE-ON	10 CPI
CTRL+G6	EMPHASIZE-OFF	ONLY
CTRL+G7	DOUBLE STRIKE-ON	YES
CTRL+G8	DOUBLE STRIKE-OFF	

Figure 5 GEMINI 10X print styles

IDS-480

The IDS-480 printer is identified on the Printer Driver Diskette as follows:

IDS480

The IDS-480 printers support all the AtariWriter features, with standard AtariWriter commands, except for underlining. The IDS-480 also supports full reverse line feed, which allows double column printing.

The IDS-480 has two modes of operation: the FIXED and the PROPORTIONAL. You can choose each of these fonts in 10 CPI, 12 CPI or 16.8 CPI. All these fonts allow elongation. The following table shows the commands to use:

FONT COMMAND	PRINT STYLE	CAN BE ELONGATED
CTRL+G1	10 CPI FIXED	YES
CTRL+G2	16.8 CPI FIXED	YES
CTRL+G3	10 CPI PROPOR.	YES
CTRL+G4	12 CPI PROPOR.	YES
CTRL+G5	16.8 CPI PROPOR	YES
CTRL+G6	12 CPI FIXED	YES

Figure 6 IDS-480 print styles

MANNESMANN TALLY

The MANNESMANN TALLY printer is identified on the Printer Driver diskette by this file name:

MANNMANN

Note: When you're working with AtariWriter, set the buffer size on the MANNESMANN TALLY to "minimum". Set all the other controls from the front panel at default values.

The MANNESMANN TALLY printers support all AtariWriter features with standard AtariWriter commands except for double column printing. There's no provision for reverse line feed. Refer to the section in this manual on "Customizing Your Files" for information on double column printing. The MANNESMANN TALLY printers support only single level superscripts and subscripts.

There are several versions of the MANNESMANN TALLY printer on the market. On some early models the right margin isn't justified accurately in the proportional print mode. There's always a possibility of a misalignment (no more than one character wide) in the right margin.

The MANNESMANN TALLY printers support two

different print modes: the draft and the correspondence. If you don't set one, the printer selects the draft mode. You can select different numbers of characters per inch according to the following chart. Only the draft mode can be elongated.

FONT COMMAND	PRINT STYLE	CAN BE ELONGATED
CTRL+G1	DRAFT 10 CPI	YES
CTRL+G2	DRAFT 16.7 CPI	YES
CTRL+G3	CORR. PROPOR.	NO
CTRL+G4	CORR. 10 CPI	NO
CTRL+G5	CORR. 12.5 CPI	NO
CTRL+G6	DRAFT 20 CPI	YES
CTRL+G7	DRAFT 12 CPI	YES

Figure 7 MANNESMANN TALLY
print styles

NEC-8023A

The NEC-8023A printer is identified on the Printer Driver diskette by the following file name:

NEC8023A

The NEC-8023A supports all the standard features of AtariWriter.

Note. If you're using the tractor feed mechanism on the NEC-8023A, you may find that superscripts, subscripts, and double-column printing aren't returning to the correct point on the print line. Use the friction feed without the tractors to eliminate this problem.

With the NEC-8023A you may use AtariWriter's font "3" to indicate the proportional print font. The NEC-8023A doesn't have an ITALICS font.

OKIDATA MICROLINE 92A and OKIDATA MICROLINE
93A

The OKIDATA-92A printer is identified on the
Printer Driver diskette as follows:

OKI92A

THE OKIDATA-93A printer is identified by this
name:

OKI93A

The Printer Driver allows you to use all the
AtariWriter commands without having to use the
embedded function code method.

The OKIDATA 92-A printer does not have a
proportional print font. Font 3 has been changed
to Elite 12 CPI print.

The Printer Driver for the OKIDATA-92A lets you
"emphasize" and "enhance" any print style. Press
[CTRL]G and 6 to turn the emphasized printing on.
Press CTRL[G] and 7 to turn it off. Press
CTRL[G] and 8 to turn on enhanced printing, and
press CTRL[G] and 9 to turn it off.

Note. Make any font change on a line by
itself, before the text it affects.

With this Printer Driver, you can use the
correspondence print style in either 10 CPI or 12
CPI (not 17 CPI).

Since the OKIDATA-92A doesn't perform reverse
line feed, you can't print multi-level superscripts
and subscripts or double columns. You can print
single level superscripts and subscripts.

The following chart shows what font commands to
use for the print styles of the OKIDATA 92-A and
93-A.

FONT COMMAND	PRINT STYLE	CAN BE WIDE
CTRL+G1	PICA 10 CPI	YES
CTRL+G2	PICA 17 CPI	YES
CTRL+G3	ELITE 12 CPI	YES
CTRL+G4	CORR. 10 CPI	YES
CTRL+G5	CORR. 12 CPI	YES
CTRL+G6	EMPHASIZE-ON	YES
CTRL+G7	EMPHASIZE-OFF	YES
CTRL+G8	ENHANCED-ON	YES
CTRL+G9	ENHANCED-OFF	YES

Figure 8 OKIDATA print styles

C. ITOH PROWRITER-8510

The C. ITOH PROWRITER printer is identified on the Printer Driver by the following file name:

PRORITER

THE PROWRITER-8510 supports all the standard features of AtariWriter.

Note. If you're using the tractor feed mechanism on the PROWRITER-8510, you may find that subscripts, superscripts, and double-column printing aren't returning to the correct point on the print line. Use the friction feed without the tractors to eliminate this problem.

With the PROWRITER, you can use font "3" to indicate the proportional print font. There's no ITALICS print font.

Customizing your files

FILES TOO LARGE WITH PRINTER DRIVER

If you generated some document files before you obtained the Printer Driver, you might find that those files now take up too much of computer memory with the Printer Driver loaded. Follow these steps:

- 1) Load the document file into AtariWriter without using the Printer Driver AUTORUN file.
- 2) Split the long file into two short files by first deleting about half the file from the top down, and SAVE it under a temporary name.
- 3) Now reload the long file and delete about half the file from the bottom up, beginning at the point at which you just finished deleting for the first temporary file, and SAVE this new file under a second temporary name.

Use the EXTender for file names to help distinguish the two small files and to help in editing later. Now you can read in the first file with your AUTORUN.SYS file for the Printer Driver and edit and print on your printer. Don't forget to put a CHAIN File command at the bottom of your first file so that the second file follows the first when it prints.

USING FUNCTION CODES

If you've had AtariWriter for a while before you obtained your Printer Driver diskette, you may have used the Printer Controls discussed in your AtariWriter manual. The instructions are to press CTRL plus the letter "O", and then the decimal value of the hexadecimal code of the function you wished to control on the printer. (Refer to your ATARI BASIC Reference Manual for conversion of the ASCII value to the decimal value.) For example, on the EPSON FX-80, to enter the

ITALICS mode, you use the following sequence:

[CTRL]O27[CTRL]O52

The FX-80 manual instructs you to send ESC plus "4". This is an ASCII "4" and not a decimal "4". The ASCII "4" is equivalent to a decimal "52".

With a Printer Driver diskette, you can still send Printer Control Codes to your printer for some special features. Just be sure to send the decimal value the printer is looking for. As with the FX-80, you need to know the decimal value of the ASCII or hexadecimal code.

FORM LETTERS

The FORM LETTER option of AtariWriter allows you to write a letter once and print many copies of the same text, changing only the name(s) and addresses. This is convenient for letters like Christmas greetings, graduation and wedding invitations, or changes of addresses. Use this option to customize a letter to more than one person. Press the OPTION and INSERT keys together where you want to insert a name or address. AtariWriter places an ESC character on the screen at that point. You can do this as many times as you like inside a file, but remember that when you're printing the file, AtariWriter stops printing and displays this prompt:

MAKE ENTRY, PRESS RETURN

You must keep track of which entry to make at each prompt.

AtariWriter lets you build a file of names, addresses or any information to insert into a letter or memo later. You can use this for form letters, mail labels, or anything that requires you to maintain a list in one file and the form letter in another file.

Here's how this works:

With the cursor at the top of the form letter, hold down the OPTION key and press the INSERT key. Then press the RETURN key. An ESC symbol like this appears on the screen: `ESC`

At each point inside the letter where you want to insert information from the mail list, place another ESC symbol in the same way.

Check the format line at the top of the screen. Make sure the values are the same for your form letter and your mail list.

On your mail list, enter a line of information (such as name, street address, city) for each entry in the form letter, and separate each set of entries with a single RETURN. For example, if you have a name and address mail list, in the form letter you'll have three ESC characters followed by RETURNS, for the name, street and city entries. In the mail list file you'll have a corresponding entry for name (followed by RETURN), street address (followed by RETURN), and city (followed by RETURN). Another RETURN separates each set of names and addresses.

When you PRINT the form letter, AtariWriter will ask you for the number of copies you want. Make sure that you enter the number of sets of entries in your mail list so that you print the right number of letters.

As AtariWriter begins to PRINT the letter, you see this prompt for the first ESC character you placed at the top of your letter:

MAKE ENTRY, PRESS RETURN

Hold down the CTRL key and press the V key. Then type:

Dn:filename.ext

Type in capital (upper-case) letters. (The "n" in Dn refers to the number of your disk drive. If you

don't type a number, the program selects drive 1.) Press the RETURN key. You've told AtariWriter to go to the mail list [filename.ext] to get the information to insert in the form letter. You won't see the CTRL+V on your TV screen. This procedure is exactly like the CHAINING outlined in your AtariWriter User's Guide.

MAILING LABELS

You don't need a special program to maintain lists of names and addresses if you have AtariWriter. You can set up left and right margins and page lengths, and load a stack of labels into your printer. AtariWriter prints all the names and addresses.

If you have pin-feed labels you'll have to experiment with the starting left margin, but try setting it to about "7" or "8". Set the right margin at almost any value that allows you to print the longest address you have on the labels.

Normally you can only get 4 or 5 lines to a label, so set the top and bottom margins to either "2" or "0" and set the CTRL-Y value at "12". This leaves a space between the labels.

DOUBLE COLUMN PRINTING

If you own almost any printer except the ATARI 825, you'll have trouble with double column printing. A printer that doesn't support a full reverse line feed won't support double column printing.

You can print in double columns, one page at a time. Set your left and right margins to the value for the leftmost column, and print only the first page. Place a forced page eject (CTRL plus "E") at the bottom of the natural first page. Then reset your left and right margins to the value for the rightmost column. Hand roll your paper back to the top of the page and then print only the second page.



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Review Form

We're interested in your experiences with APX programs and documentation, both favorable and unfavorable. Many of our authors are eager to improve their programs if they know what you want. And, of course, we want to know about any bugs that slipped by us, so that the author can fix them. We also want to

know whether our instructions are meeting your needs. You are our best source for suggesting improvements! Please help us by taking a moment to fill in this review sheet. Fold the sheet in thirds and seal it so that the address on the bottom of the back becomes the envelope front. Thank you for helping us!

1. Name and APX number of program.

AtariWriter Printer Driver (223)

2. If you have problems using the program, please describe them here.

3. What do you especially like about this program?

4. What do you think the program's weaknesses are?

5. How can the catalog description be more accurate or comprehensive?

6. On a scale of 1 to 10, 1 being "poor" and 10 being "excellent", please rate the following aspects of this program:

- _____ Easy to use
- _____ User-oriented (e.g., menus, prompts, clear language)
- _____ Enjoyable
- _____ Self-instructive
- _____ Use (non-game programs)
- _____ Imaginative graphics and sound

7. Describe any technical errors you found in the user instructions (please give page numbers).

8. What did you especially like about the user instructions?

9. What revisions or additions would improve these instructions?

10. On a scale of 1 to 10, 1 representing "poor" and 10 representing "excellent", how would you rate the user instructions and why?

11. Other comments about the program or user instructions:

From

STAMP



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[seal here]